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234 of milk three times a day; an average cow gives two bucketfuls for the day. A milk bucket holds an average of /25/ 2 1/2 liters. The [245] buckets are made and repaired by Chinese. Good buckets are made of pine wood, first-class ones of cypress. Osiers are used as hoops.

The milk is drunk boiled or eaten as clabber. But most of the milk is used to make butter. Casein is derived from the buttermilk, and is filtered through a coarse bag, whereupon it is dried, stored in the form of coarse powder, and eaten. The whey is fed to the dogs. The butter is stored in mutton or yak maws, often for a long time, "up to more than 10 years." This old butter which gets very rancid is chiefly used in the lamaseries to feed guests at the festivals or to make Buddha images. Surplus butter is sent to the temple in which the son of the family is a lama. Lamas also often come to the tents and beg for butter, which is always willingly given to them. The price for old and new butter is the same. It comes to $0.50 per chin. (1) At home as well as in the temples old butter is made into

1. Chin, the Chinese pound, equals 605 grams.

lard in order to clarify it. This lard is used only as fuel for the sacrificial lamps.

236 The long yak hair from the animal's belly, back, and legs is plucked once a year in the fifth or sixth month. This is done by tying down the yak and winding the hair around a stick of wood and thus pulling it out in tufts. Yak hair is used to make cloth for the tent and for ropes. The latter are used to pull the tent widths taut, and as halters and hobbles for horses.

231 435 A four-year-old milch cow costs $15 to $20, an old ox ready to be slaughtered, $12 to $13. Calves are not sold. Yaks are slaughtered mostly in September and October. Some of the fresh meat is eaten, most of it is hung up to dry. The dried meat is either hung in the tent or is packed in leather. In this packed state it is often given to a temple for /26/ safekeeping. A yak skin costs $1 to $4; a good yak tail costs 10 cents, a white one, 20 to 30 cents. Yak horns are used as snuff containers, rarely as drinking horns. They also serve as milk bottles for babies.

● 232 Cattle are raised only by the sedentary Fantzu, not by the tent nomads. But the tent nomads buy individual bulls for breeding, because they like very much to use crossbreeds between beef cattle and yaks. A cross between a male beef and a female yak is particularly valued (Chinese: pien-niu). The pien-niu grows larger than a yak and has somewhat shorter and more curly hair than the

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yak. Its tail is thick and bushy but, unlike the yak, is clearly de- 232
fined at the root. It has larger horns than the yak. The pien-niu gets to be over 20 years old, that is, older than the yak. Male pien-niu are always castrated and used as pack oxen. The pien-niu is valued because of its greater strength, its longer life and better milk production; it also withstands the warmer climate of lower altitudes better than the yak. For the yak breeder, therefore, the pien-niu has a similar position as the mule has for the horse breeder.

The pien-niu cow drops her first calf after 3 to 4 years. The 231
price of a milch cow fluctuates between $40 and $50, and is thus 435
twice as high as that of a yak cow. A yak maw full of butter is the annual rent for a good pien-niu. A maw contains about 18 chin. The cross between a male yak and a female beef cow is called szu-pien-niu in Chinese. It is not regarded as valuable as the pien-niu, although it also lives to be 20 years old. The szu-pien-niu has a bushy tail, smaller horns and above all weaker legs than the pien-niu. The price of a szu-pien-niu is $30 to $40. The cross between the yak bull and the pien-niu cow (chia-pien-niu) is valued even less. It has the same fur as beef cattle, but is larger. This cross-breed lives to be only 10 years old. It costs about $30. A cross between /27/ a bull and a female pien-niu is called ga-ba. It lives to be no more than 7 or 8 years old. A ga-ba calf is immediately slaughtered, and the mother is then milked.

After yaks, sheep (1) are the most important domestic animals. 231

1. With regard to breeds, see Hermanns 3), page 87.

One family seldom owns more than 700 sheep; but there are also families that have no sheep at all. In the community made up of 20 tents where I lived there were seven families who had no sheep. The total number of sheep in this community came to more than 9,000, which means an average of 700 per herd owner. Sheep are not leased. One figures 40 to 50 ewes to one ram. The sheep drop their first young at two years; it drops only one lamb. A good ewe is allowed to die a natural death; otherwise sheep are slaughtered when they are two or three years old. Wethers are slaughtered at three or four years. A good sheep costs $3 to $3.50, a fat wether [436] $9.

Like the yaks, the sheep are driven to pasture early in the morn- 233
ing and back to the tents at night. Some herd owners have simple, circular sheepfolds made of wooden beams next to their tents, into which they drive their sheep at night.

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236 The sheep are sheared once a year in May or June. Neighbors [476] help each other in this task without charge. It takes an average of two days to shear the herd of one family. A wether gives 1 chin of wool annually, a ewe, 1/2 chin. A chin of fleece costs 20 to 50 cents. At the time of my visit the demand for wool was so great 237 that the highest price was paid. A sheepskin costs $0.60 to $1. 435 However, skins of unborn lambs cost $2 to $4. A sheep gut is sold for $0.20 to $0.30; in He-tso, the nearest large town, the price goes 262 up to $0.40 when it is resold. More mutton than yak meat is eaten. Lambs are eaten only if they have died of some disease. The Fantzu do not drink sheep milk, but they use it for butter if they do not have enough yak milk.

231 /28/ The sheep often suffer from paralysis of both forelegs, and many die of this disease. Most of the animals die of starvation in February or March, especially if there has been much snow during [476] the winter. If a family loses all its animals, everybody helps out by giving them others. The tent nomads do not often keep goats, but the sedentary Fantzu often do, and they also drink goat's milk.

Every family has at least one horse. The Mewu-Fantzu have a small breed of horses that measures about 130 centimeters at the withers. These Tibetan ponies are somewhat smaller and lighter than the Mongolian ponies or those from the provinces of Ch'inghai and Kansu. They are closer to the tarpan (Equus gmelini) than the Przewalski type (1). These horses have a great deal of endurance

1. Compare Hermanns 3), page 164 ff.

and are especially adapted for use in mountainous terrain. They 232 have hard hoofs which are not shoed in the steppes. Good stallions 435 are selected for breeding, the rest are castrated at four years. These horses live an average of 10 years; the men break them in at 3 years. The average price of a riding horse is $40 to $50; the highest price is $100. No horses are imported, but horse traders come from T'ao-chou and He-tso, and the Mewu-Fantzu sell them horses. Mules are not used by the tent nomads; asses cannot stand the high altitude.

492 The simple horse bridles of leather with brass mountings are made and sold by the Chinese, likewise the iron snaffles and the stirrups which can be of iron or brass. The Mewu-Fantzu use Hungarian saddles /bocksattel/ the wooden frames of which are made by the sedentary Tebu-Fantzu on the northern slopes of the